

Patent Claims

- 1) Packaging films with regionally applied security features, characterized in that the packaging film has in defined areas one or several security features applied thereon, the application of the security features taking place with the detachment of the security feature from a carrier substrate provided with a UV-curable deep-drawable separation lacquer.
- 2) Packaging films as claimed in claim 1, characterized in that the security feature(s) includes (include) a surface structure stamped into the UV-curable deep-drawable separation lacquer.
- 3) Packaging films as claimed in claim 2, characterized in that the stamped surface structure is metallized or partially metallized.
- 4) Packaging films as claimed in one of claims 1 to 3, characterized in that the security feature(s) includes (include) one or several layers with optical and/or electrical and/or magnetic properties.
- 5) Packaging films as claimed in claim 4, characterized in that the security element(s) includes (include) one or several layers with luminescent and/or thermochromic properties.
- 6) Packaging films as claimed in one of claims 1 to 5, characterized in that the security feature(s) includes (include) one or several layer(s) with chromatic tilt effect and/or biomarkers.
- 7) Packaging films as claimed in one of claims 1 to 6, characterized in that the security features include one or several layers, which, independently of other functional properties, have all-over or regionally the form of patterns, lines, letters, symbols, geometric shapes and the like.

- 8) Packaging films as claimed in one of claims 1 to 7, characterized in that the security element furthermore includes an adhesion coating.
- 9) Packaging films as claimed in one of claims 1 to 8, characterized in that the packaging film is a blister film.
- 10) Packaging films as claimed in one of claims 1 to 8, characterized in that the packaging film is a cold-formable film.
- 11) Packaging films as claimed in one of claims 1 to 8, characterized in that the packaging film is a film for strip packs.
- 12) Method for the production of security features for the application onto a packaging film, characterized in that onto a carrier substrate is applied a UV-curable deep-drawable separation lacquer, which, subsequently, is optionally provided with further functional layers.
- 13) Method as claimed in claim 12, characterized in that onto a carrier substrate is applied a UV-curable deep-drawable separation lacquer, which subsequently is provided with a surface structure by impressing a mold into the lacquer, which, at the time of the molding, is precured to the gel point, whereupon the lacquer is cured completely.
- 14) Method as claimed in one of claims 12 or 13, characterized in that subsequently under register control further functional layers and/or an adhesion coating are applied.
- 15) Method as claimed in one of claims 12 to 14, characterized in that the security features are subsequently cut to size.
- 16) Method for the application of regional security features onto a packaging film, characterized in that the cut-to-size security feature is introduced into the laminating gap of a laminating unit via web guiding elements ahead of the infeed, and is bonded with the packaging film.

- 17) Method as claimed in claim 16, characterized in that the cut-to-size security feature is introduced into the laminating gap via a temperature-controlled roller.
- 18) Method as claimed in one of claims 16 or 17, characterized in that the packaging film provided with the security feature is subsequently deformed by deep drawing.
- 19) Use of the packaging films as claimed in one of claims 1 to 11 for packaging purposes, in which high counterfeiting security is required.
- 20) Use of the packaging films as claimed in one of claims 1 to 11 for packaging in the electronics industry, for data media, for packaging of food items or feed items, or as blister films in the field of pharmaceuticals for packaging medications, such as pills, dragees, tablets, suppositories, loose powder preparations, granulates, for strip packs, infusion bottle and ampule closures and the like.